

Title (en)
FUSED QUARTZ TUBING FOR PHARMACEUTICAL PACKAGING

Title (de)
KONDENSIERTE QUARZLEITUNG FÜR PHARMAZEUTISCHE VERPACKUNGEN

Title (fr)
TUBES DE VERRE DE QUARTZ POUR EMBALLAGE PHARMACEUTIQUE

Publication
EP 2467338 A1 20120627 (EN)

Application
EP 10810671 A 20100820

Priority

- US 23582309 P 20090821
- US 2010046189 W 20100820

Abstract (en)
[origin: WO2011022664A1] A high silica glass composition comprising about 82 to about 99.9999 wt. % SiO₂ and from about 0.0001 to about 18 wt. % of at least one dopant selected from Al₂O₃, CeO₂, TiO₂, La₂O₃, Y₂O₃, Nd₂O₃, other rare earth oxides, and mixtures of two or more thereof. The glass 5 composition has a working point temperature ranging from 600 to 2,000 °C. These compositions exhibit stability similar to pure fused quartz, but have a moderate working temperature to enable cost effective fabrication of pharmaceutical packages. The glass is particularly useful as a packaging material for pharmaceutical applications, such as, for example pre-filled syringes, ampoules and vials.

IPC 8 full level
C03C 3/06 (2006.01); **C03C 4/20** (2006.01)

CPC (source: EP KR US)
A61J 1/00 (2013.01 - KR US); **A61J 1/03** (2013.01 - US); **A61J 1/065** (2013.01 - US); **C03C 3/06** (2013.01 - EP KR US); **C03C 4/20** (2013.01 - EP US); **C03C 2201/36** (2013.01 - EP US); **Y10T 428/131** (2015.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011022664 A1 20110224; CN 102695683 A 20120926; EP 2467338 A1 20120627; EP 2467338 A4 20150701; JP 2013502372 A 20130124; KR 20120089638 A 20120813; MX 2012002159 A 20120704; US 2012148770 A1 20120614

DOCDB simple family (application)
US 2010046189 W 20100820; CN 201080041879 A 20100820; EP 10810671 A 20100820; JP 2012525733 A 20100820; KR 20127004794 A 20100820; MX 2012002159 A 20100820; US 201013391527 A 20100820